

Regional HIV/AIDS Epidemiologic Profile of Dukes and Nantucket Counties, Massachusetts: 2011

Recent changes to the presentation of Massachusetts HIV/AIDS surveillance data

Effective January 1, 2011, the Massachusetts Department of Public Health (MDPH), Bureau of Infectious Diseases, HIV/AIDS fact sheets, epidemiologic reports and other HIV data presentations have been updated to remove all HIV/AIDS cases that were first diagnosed while residing in another state before being reported in Massachusetts. As of January 1, 2011, this resulted in the removal of 2,297 HIV/AIDS cases, of which 739 have died and 1,558 were living. These persons living with HIV/AIDS may currently reside and receive care in the Commonwealth. The total number of persons living in Massachusetts with HIV/AIDS, irrespective of location of diagnosis, is the basis for MDPH service planning. This change is partially a result of increased activities required by the Centers for Disease Control and Prevention (CDC) for de-duplication among states in an effort to identify cases that are counted multiple times in the National HIV/AIDS surveillance system. The cases are assigned to the state that reports the earliest date of AIDS diagnosis, if available. If the case has not progressed to AIDS, the case is assigned to the state with the earliest HIV diagnosis date. Please note that all previous HIV/AIDS fact sheets, data reports and presentations include cases that may have been first diagnosed in another state.

Also effective January 1, 2011, the Massachusetts Department of Public Health (MDPH) HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to eliminate the presumed heterosexual exposure mode category for males; those cases have been reassigned to the no identified risk (NIR) exposure mode category. The presumed heterosexual exposure mode category was used with the intention of identifying HIV exposure mode for females when sex with males is the only reported risk factor, there is no evidence of current or past injection drug use (IDU), and behavioral risk and HIV status information about male sexual partners are unknown. Twenty-nine percent of females living with HIV/AIDS and 41% of recent HIV diagnoses among females are reported in the presumed heterosexual exposure mode category. The application of the presumed heterosexual exposure mode category to males is overly inclusive in that female to male HIV transmission is biologically less probable, and there are alternate exposure modes that are possible for males, including sex with other men (MSM) or IDU. The CDC reports males diagnosed with HIV/AIDS who report sex with females as their only risk factor, without corresponding partner risk or HIV status information, in the NIR exposure mode category. This revision to report presumed heterosexual male HIV/AIDS cases as NIR will bring Massachusetts HIV/AIDS case reporting for males in alignment with CDC standards. The MDPH will maintain presumed heterosexual and heterosexual exposure mode categories for females.

Table 1. Total number of people reported with HIV infection or AIDS¹ by mortality status on December 31, 2010: Dukes and Nantucket Counties, Massachusetts²

	N	%
People Living with HIV/AIDS	57	66%
People Reported with HIV or AIDS who are Deceased	29	34%
Total Number of People Reported with HIV Infection or AIDS	86	100%

¹ Does not include individuals diagnosed with HIV infection (non-AIDS) who died prior to January 1, 1999 or who were not in care on January 1, 1999

² Effective, January 1, 2011 the Massachusetts Department of Public Health, HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to remove all HIV/AIDS cases that were first diagnosed in another state before being reported in Massachusetts.

Data Source: MDPH HIV/AIDS Surveillance Program, Data as of 1/1/11

Table 2. Average annual rate of HIV infection diagnosis from 2007 to 2009 and HIV/AIDS prevalence rate on 12/31/10¹: Dukes and Nantucket Counties, Massachusetts²

Average annual HIV diagnosis rate from 2007–2009	Average rate per 100,000	Average annual number of HIV diagnoses
Dukes and Nantucket Counties, MA	7.8	2
Massachusetts Total	9.4	607.3

HIV/AIDS prevalence rate on 12/31/10	Rate per 100,000	Number of people living with HIV/AIDS
Dukes and Nantucket Counties, MA	221.8	57
Massachusetts Total	273.7	17,621

¹ The denominators for prevalence calculations are based on year 2005 population estimates from the MDPH Bureau of Health Statistics, Research and Evaluation.

² Effective, January 1, 2011 the Massachusetts Department of Public Health, HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to remove all HIV/AIDS cases that were first diagnosed in another state before being reported in Massachusetts.

Data Source: MDPH HIV/AIDS Surveillance Program, Data as of 1/1/11

Table 3. People living with HIV/AIDS¹, deaths among people reported with HIV/AIDS, and newly diagnosed HIV infections by year²: 2000–2009, Dukes and Nantucket Counties, Massachusetts³

Year	HIV/AIDS Prevalence	Deaths among those with HIV/AIDS	Diagnosis of HIV Infection
2000	32	0	7
2001	34	-- ⁴	-- ⁴
2002	35	0	-- ⁴
2003	37	-- ⁴	-- ⁴
2004	43	0	6
2005	44	0	-- ⁴
2006	49	-- ⁴	6
2007	52	0	-- ⁴
2008	52	-- ⁴	-- ⁴
2009	53	0	-- ⁴

¹ Number of people living with HIV/AIDS on 12/31 of each year

² Reflects year of HIV infection diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis for the most recently available 10 year period after the implementation of HIV infection reporting in 1999.

³ Effective, January 1, 2011 the Massachusetts Department of Public Health, HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to remove all HIV/AIDS cases that were first diagnosed in another state before being reported in Massachusetts.

⁴ Numbers less than 5 for localities with populations of less than 50,000 are suppressed for the assurance of confidentiality.

Data source: MDPH HIV/AIDS Surveillance Program, Data as of 1/1/11

Table 4. People diagnosed with HIV infection from 2007–2009¹ and people living with HIV/AIDS on December 31, 2010 by gender, place of birth, race/ethnicity, exposure mode, age at HIV infection diagnosis and current age: Dukes and Nantucket Counties, Massachusetts²

HIV Infection Diagnoses			PLWH/A	
Gender:	N	%	N	%
Male	6	100%	47	82%
Female	0	0%	10	18%
Place of Birth:	N	%	N	%
US	-- ⁷	-- ⁷	32	56%
Puerto Rico/US Dependency ³	0	0%	-- ⁷	-- ⁷
Non-US	-- ⁷	-- ⁷	-- ⁷	-- ⁷
Race/Ethnicity:	N	%	N	%
White (non-Hispanic)	-- ⁷	-- ⁷	34	60%
Black (non-Hispanic)	0	0%	12	21%
Hispanic/Latino	-- ⁷	-- ⁷	-- ⁷	-- ⁷
Other/Undetermined ⁴	0	0%	-- ⁷	-- ⁷
Exposure Mode:	N	%	N	%
Male-to-male sex (MSM)	-- ⁷	-- ⁷	37	65%
Injection Drug Use (IDU)	0	0%	-- ⁷	-- ⁷
MSM/IDU	0	0%	-- ⁷	-- ⁷
Heterosexual Sex	-- ⁷	-- ⁷	9	16%
Other	0	0%	0	0%
Total Undetermined	-- ⁷	-- ⁷	8	14%
• Presumed Heterosexual Sex ⁵	0	0%	-- ⁷	-- ⁷
• Undetermined ⁶	-- ⁷	-- ⁷	-- ⁷	-- ⁷
Age:	N	%	N	%
	At Diagnosis		On December 31, 2010	
Under 13	0	0%	0	0%
13 to 19	0	0%	0	0%
20 to 24	-- ⁷	-- ⁷	-- ⁷	-- ⁷
25 to 29	-- ⁷	-- ⁷	-- ⁷	-- ⁷
30 to 34	-- ⁷	-- ⁷	-- ⁷	-- ⁷
35 to 39	-- ⁷	-- ⁷	8	14%
40 to 44	0	0%	7	12%
45 to 49	-- ⁷	-- ⁷	11	19%
50 to 54	-- ⁷	-- ⁷	11	19%
55 to 59	0	0%	9	16%
60+	0	0%	5	9%
Total	6	100%	57	100%

¹ Reflects year of HIV infection diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis for the most recently available three-year period after the implementation of HIV infection reporting in 1999.

² Effective, January 1, 2011 the Massachusetts Department of Public Health, HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to remove all HIV/AIDS cases that were first diagnosed in another state before being reported in Massachusetts.

³ Ninety-seven percent of all people diagnosed with HIV infection in MA who were born in a US dependency were born in Puerto Rico, 1% were born in the US Virgin Islands, <1% were born in American Samoa, <1% were born in Guam and 3% were born in an unknown dependency.

⁴ Other/Undetermined includes Asian/Pacific Islander, American Indian/Alaska Native and people of unspecified race/ethnicity

⁵ Includes female sex with male of unknown HIV status or risk. This category is limited to females.

⁶ Includes male sex with female of unknown HIV status or risk, those still being followed up for risk information, those who have died with no determined risk, and those lost to follow-up.

⁷ Numbers less than 5 for localities with populations of less than 50,000 are suppressed for the assurance of confidentiality.

Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding), Data as of 1/1/11

Table 5. People living with HIV/AIDS on December 31, 2010 by gender and race/ethnicity: Dukes and Nantucket Counties, Massachusetts¹

Race/Ethnicity:	Male		Female	
	N	%	N	%
White (non-Hispanic)	32	68%	-- ³	-- ³
Black (non-Hispanic)	7	15%	5	50%
Hispanic/Latino	-- ³	-- ³	-- ³	-- ³
Other/Undetermined ²	-- ³	-- ³	0	0%
Total	47	100%	10	100%

¹ Effective, January 1, 2011 the Massachusetts Department of Public Health, HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to remove all HIV/AIDS cases that were first diagnosed in another state before being reported in Massachusetts.

² Other/Undetermined includes Asian/Pacific Islander, American Indian/Alaska Native and people of unspecified race/ethnicity.

³ Numbers less than 5 for localities with populations of less than 50,000 are suppressed for the assurance of confidentiality.

Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding), data as of 1/1/11

Table 6. People living with HIV/AIDS on December 31, 2010 by gender and exposure mode: Dukes and Nantucket Counties, Massachusetts¹

Exposure Mode:	Male		Female	
	N	%	N	%
Male-to-male sex (MSM)	37	79%	N/A	N/A
Injection drug use (IDU)	-- ⁴	-- ⁴	0	0%
MSM/IDU	-- ⁴	-- ⁴	N/A	N/A
Heterosexual sex	-- ⁴	-- ⁴	5	50%
Other	-- ⁴	-- ⁴	0	0%
Total Undetermined	-- ⁴	-- ⁴	-- ⁴	-- ⁴
• Presumed heterosexual sex ²	N/A	N/A	-- ⁴	-- ⁴
• Undetermined ³	-- ⁴	-- ⁴	-- ⁴	-- ⁴
Total	47	100%	10	100%

¹ Effective, January 1, 2011 the Massachusetts Department of Public Health, HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to remove all HIV/AIDS cases that were first diagnosed in another state before being reported in Massachusetts.

² Includes female sex with male of unknown HIV status or risk. This category is limited to females.

³ Includes male sex with female of unknown HIV status or risk, those still being followed up for risk information, those who have died with no determined risk, and those lost to follow-up.

⁴ Numbers less than 5 for localities with populations of less than 50,000 are suppressed for the assurance of confidentiality.

N/A=Not Applicable

Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding), data as of 1/1/11